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DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01270

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SECTION 01270

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 615/A 615M	(2000) Deformed and Plain Billet-Steel Bars for Concrete Reinforcement
ASTM C 127	(2001) Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate
ASTM C 128	(1997) Specific Gravity and Absorption of Fine Aggregate
ASTM D 1250	(1980; R 1997e1) Standard Guide for Petroleum Measurement Tables

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

Weight Certificates; G

Submit weight certificates for all work items paid for by weight.

1.3 LUMP SUM PAYMENT ITEMS

Payment items for the work of this contract for which contract lump sum payments will be made are listed in the BIDDING SCHEDULE and described below. All costs for items of work, which are not specifically mentioned to be included in a particular lump sum or unit price payment item, shall be included in the listed lump sum item most closely associated with the work involved. The lump sum price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for which separate payment is not otherwise provided.

1.3.1 Diversion and Control of Water

1.3.1.1 Payment

Payment for Diversion and Control of Water will be made at the applicable contract price, which payment shall constitute full compensation for dewatering the work area and diverting and controlling the water in the channel and other work areas in accordance with Section 02100 DIVERSION AND CONTROL OF WATER.

1.3.1.2 Measurement

Unit of measure: lump sum

1.3.2 Clearing and Grubbing

1.3.2.1 Payment

Payment will be made for costs associated with all work and operations necessary for clearing and grubbing in accordance with Section 02230 CLEARING AND GRUBBING.

1.3.2.2 Measurement

Unit of measure: lump sum.

1.3.3 Demolition

1.3.3.1 Payment

Payment for Demolition will be made for costs associated with all work and operations necessary for demolition in accordance with Section 02220 DEMOLITION.

1.3.3.2 Measurement

Unit of measure: lump sum.

1.3.4 Beaumont Avenue Closure

1.3.4.1 Payment

Payment for Beaumont Avenue Closure will be made at the applicable contract price, which payment shall constitute full compensation for breaking out concrete, removing the existing bridge, providing and maintaining the closure, signage, including earthwork, surfacing, traffic control facilities, disposal of the removed materials, and the restoration of the areas upon completion of the work.

1.3.4.2 Measurement

Unit of measure: lump sum.

1.3.5 Pier Noses at San Timoteo Canyon Road Bridge

1.3.5.1 Payment

Payment for concrete Pier Noses at San Timoteo Canyon Road Bridge will be made at the applicable contract price, which payment shall constitute full

compensation for constructing the pier noses and the associated foundations, including earthwork, shoring, forms, concrete, reinforcing steel, and incidentals, complete.

1.3.5.2 Measurement

Unit of measure: lump sum

1.3.6 Concrete Retaining Walls at San Timoteo Canyon Road Bridge

1.3.6.1 Payment

Payment for Concrete Retaining Walls at San Timoteo Canyon Road Bridge will be made at the applicable contract price, which payment shall constitute full compensation for constructing the walls and the associated foundations, including earthwork, shoring, forms, weepholes, concrete, R.C. maintenance road, R.C. pavement, reinforcing steel, aggregate base course, and incidentals, complete.

1.3.6.2 Measurement

Unit of measure: lump sum

1.3.7 Side Drains

1.3.7.1 Payment

Payment for Side Drains will be made at the applicable contract price for each individual side drain, which payment shall constitute full compensation for constructing the side drain, complete, at each location listed below, including earthwork, concrete, steel reinforcement, inlet structure, pipe, concrete collars, metal work, outlet structure, grouted riprap, and incidentals, complete. The earthwork included shall be only that earthwork which is located outside the limits of earthwork for which other payment is provided.

The side drains are located at:

1. Station 205+12.12 CCL - 48" RCP
2. Station 121+50.00 SBCL - 96" RCP
3. Station 134+54.62 SBCL - 36" RCP
4. Station 137+80.00 SBCL - 30" RCP
5. Station 159+60.00 SBCL - 36" RCP
6. Station 177+80.00 SBCL - 18" RCP
7. Station 200+26.01 SBCL - 6.3'x3.75' RCB
8. Station 207+86.66 SBCL - 54" RCP
9. Station 209+82.47 SBCL - 36" RCP/HDPE
10. Station 177+33.87 NBCL - 24" RCP
11. Station 210+70.00 NBCL - 36" RCP

1.3.7.2 Measurement

Unit of measure: lump sum, for each side drain

1.3.8 Subdrain System - Concrete Channel

1.3.8.1 Payment

Payment for Subdrain System - Concrete Channel will be made at the applicable contract price, which payment shall constitute full compensation

for constructing the subdrain system complete, including, gravel drain, sand filter, geotextiles, outlet boxes, subdrain manholes, clean outs, flap gates, metal work, drain pipe, concrete, earthwork and other incidentals. The earthwork included shall be only that earthwork that is located outside the limits shown for channel excavation.

1.3.8.2 Measurement

Unit of Measure: lump sum

1.3.9 Subdrain System - Drop Structure

1.3.9.1 Payment

Payment for Subdrain System - Drop Structure will be made at the applicable contract price, which payment shall constitute full compensation for constructing the subdrain system complete, including, drain material, geotextiles, drain pipe, and earthwork. The earthwork included shall be only that earthwork that is located outside the limits shown for channel excavation.

1.3.9.2 Measurement

Unit of measurement: lump sum

1.3.10 Station Marking

1.3.10.1 Payment

Payment for Station Marking will be made at the applicable contract price, which payment shall constitute full compensation for marking station information at various locations within the project limits, complete.

1.3.10.2 Measurement

Unit of measurement: lump sum

1.3.11 As-Built Drawings

1.3.11.1 Payment

Payment for As-Built Drawings will be made at the applicable contract price, which payment shall constitute full compensation for preparing working as-built and final as-built drawings per AS-BUILT DRAWINGS of Section 01780.

1.3.11.2 Measurement

Unit of measurement: lump sum

1.3.12 First Street Extension

1.3.12.1 Payment

Payment for First Street Extension will be made at the applicable contract price, which payment shall constitute full compensation for constructing street extension as shown on plans, including earthwork, asphalt pavement, concrete, reinforcing steel, and incidentals, complete.

1.3.12.2 Measurement

Unit of Measurement: lump sum

1.3.13 Relocation of Power Line to Nick's Well

1.3.13.1 Payment

Payment for Relocation of Power Line to Nick's Well will be made at the applicable contract price, which payment shall constitute full compensation for coordinating with Southern California Edison to relocate the existing power line and poles to Nick's well as show on plans, including clearing and grubbing, earthwork, disconnection and reconnection of pump(s) and incidentals, complete.

1.3.13.2 Measurement

Unit of Measurement: lump sum

1.4 UNIT PRICE PAYMENT ITEMS

Payment items for the work of this contract on which the contract unit price payments will be made are listed in the BIDDING SCHEDULE and described below. The unit price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for each of the unit price items.

1.4.1 Excavation

1.4.1.1 Payment

Payment will be made for costs associated with excavation, which includes performing required excavation and other operations incidental thereto, Contractor-furnished disposal area(s) and disposition of excess and unsuitable excavated materials. This item includes the excavation and disposal of buried refuse and rubble.

No payment will be made for construction, maintenance, or obliteration of access and haul roads. No separate payment will be made for excavation and disposal of unsatisfactory soils. When such excavation is directed by the Contracting Officer, payment therefor will be included in the applicable contract price for the items of work under which the unsuitable soils are encountered. When there is no applicable contract item, an adjustment shall be made.

1.4.1.2 Measurement

The total quantity of excavated material for which payment will be made will be the theoretical quantity between the ground surface as determined by a survey and the slope of the theoretical cross sections indicated. The excavation of the area/space occupied by the soil cement banks/ramps is considered as incidental to the soil cement construction. Therefore, it will not be included in the computation of excavation volume. No allowance will be made for overexcavation or for the removal of any material outside the required slope lines unless authorized.

Unit of measure: cubic yard.

1.4.2 Compacted fill

1.4.2.1 Payment

Payment for Compacted fill, will be made at the applicable contract price, which payment shall constitute full compensation for subgrade preparation, placing, spreading, discing, shaping, grading, overbuilding and cutting back, and compacting the fill, and other operations incidental thereto, complete.

1.4.2.2 Measurement

The total quantity of fill material for which payment will be made will be the theoretical quantity between the neat-line excavation limits and/or ground surface as determined by the survey and the grade and slope of the theoretical cross sections indicated. No allowance will be made for filling any overexcavation or fills for temporary access and haul roads for the Contractor's convenience.

Unit of measure: cubic yard

1.4.3 Concrete, Channel Invert

1.4.3.1 Payment

Payment for Concrete, Channel Invert will be made at the applicable contract price, which payment shall constitute full compensation for obtaining and placing concrete in the channel invert, including cement and Pozzolan, complete. Steel reinforcement is excluded from this pay item.

1.4.3.2 Measurement

Unit of measure: cubic yard

1.4.4 Concrete, Channel Sideslope

1.4.4.1 Payment

Payment for Concrete, Channel Sideslope will be made at the applicable contract price, which payment shall constitute full compensation for obtaining and placing concrete in the channel sideslope, including cement and Pozzolan, complete. Steel reinforcement is excluded from this pay item.

1.4.4.2 Measurement

Unit of measure: cubic yard

1.4.5 Steel Reinforcement

1.4.5.1 Payment

Payment for Steel Reinforcement will be made at the applicable contract price, in tons which payment shall constitute full compensation for furnishing and placing the reinforcement, complete. No separate payment for Steel Reinforcement in concrete structures, which are paid for on a lump sum basis will be made. All costs, therefor, will be included in the total lump sum price for that structure.

1.4.5.2 Measurement

Measurement for reinforcement in concrete which are paid on a cubic yard basis will be made of the lengths of bars actually placed in the complete work in accordance with the drawings, approved bar schedules, or as directed. The measured lengths will be converted to weights in pounds for the bar numbers listed by the use of the unit weights per linear foot contained in ASTM A 615/A 615M . Steel in laps indicated on the drawings or required by the Contracting Officer will be measured. Longitudinal steel for channel invert and sideslopes will be measured on the basis of the use of 60-foot bar lengths. No measurement will be made for the additional steel in laps that are authorized for the convenience of the Contractor. No measurement will be made of steel supports and spacers. All costs for furnishing and installing supports and spacers shall be included in the various items with the reinforcement.

Unit of measurement: tons

1.4.6 Soil Cement

1.4.6.1 Payment

Payment for Soil Cement will be made at the applicable contract price, which payment shall constitute full compensation for the soil cement including excavation, furnishing soil material, screening, batching, hauling, placing, compacting, and curing, complete in place. Portland cement and Pozzolan used in the soil cement are excluded from this item.

1.4.6.2 Measurement

Measurement of Soil Cement will be made on the basis of actual cubic yards of soil cement within the paylines of soil cement as indicated on the drawings.

Unit of measurement: cubic yard

1.4.7 Cement for Soil Cement

1.4.7.1 Payment

Payment for Cement for Soil Cement will be made at the applicable contract price, which payment shall constitute full compensation for furnishing the Portland Cement ready for use in the work, complete. No payment will be made for Portland Cement used for structures for which separate payment is provided. Cement used in bedding mortar will not be paid for, unless approved by the Contracting Officer, in writing.

1.4.7.2 Measurement

Unit of measurement: tons (2,000 pounds)

Cement for soil cement will be determined by multiplying the approved weight of Portland Cement in pounds per cubic yard by the number of accepted corresponding cubic yards placed within the paylines of the Soil Cement structures to the nearest 0.1 ton. Cement used in bedding mortar, wasted or used for the convenience of the Contractor will not be paid for.

1.4.8 Pozzolan for Soil Cement

1.4.8.1 Payment

Payment for Pozzolan for Soil Cement will be made at the applicable contract price, which payment shall constitute full compensation for the Pozzolan, complete. No payment will be made for Pozzolan used for structures for which separate payment is provided.

1.4.8.2 Measurement

Unit of measurement: tons (2,000 pounds)

Pozzolan for soil cement will be determined by multiplying the approved weight of Pozzolan in pounds per cubic yard by the number of accepted corresponding cubic yards placed within the paylines of the Soil Cement structures to the nearest 0.1 ton.

1.4.9 Intake Structures, Basins 1 to 18

1.4.9.1 Payment

Payment for Intake Structures, Basins 1 to 18 will be made at the applicable contract price, which payment shall constitute full compensation for each intake structure, complete, including, earthwork, concrete, steel reinforcement, clean outs, metal work, and other incidentals. The earthwork included shall be only that earthwork that is located outside the limits shown for channel excavation.

1.4.9.2 Measurement

Unit of measure: each

1.4.10 30" RCP Outlet Pipe, Basin 1

1.4.10.1 Payment

Payment for 30" RCP outlet pipe, Basin 1 will be made at the applicable contract price, which payment shall constitute full compensation for the outlet pipe, complete, including earthwork, RCP pipe, and incidentals. The earthwork included shall be only that earthwork that is located outside the limits shown for channel excavation.

1.4.10.2 Measurement

Unit of measure: linear foot

1.4.11 36" RCP Outlet Pipe, Basins 2 to 18

1.4.11.1 Payment

Payment for 36" RCP outlet pipe, Basins 2 to 18 will be made at the applicable contract price, which payment shall constitute full compensation for the outlet pipes, complete, including earthwork, RCP pipe, concrete encasement, and incidentals. The earthwork included shall be only that earthwork that is located outside the limits shown for channel excavation.

1.4.11.2 Measurement

Unit of measure: linear foot

1.4.12 Outlet Structure, Basin 1

1.4.12.1 Payment

Payment for Outlet Structure, Basin 1 will be made at the applicable contract price, which payment shall constitute full compensation for each outlet structure, complete, including earthwork, furnishing concrete and steel reinforcement, metal work, and incidentals. The earthwork included shall be only that earthwork that is located outside the limits shown for channel excavation.

1.4.12.2 Measurement

Unit of measure: each

1.4.13 Outlet Structures, Basins 2 to 18

1.4.13.1 Payment

Payment for Outlet Structures, Basins 2 to 18 will be made at the applicable contract price, which payment shall constitute full compensation for each outlet structure, complete, including earthwork, furnishing concrete and steel reinforcement, and incidentals. The earthwork included shall be only that earthwork that is located outside the limits shown for channel excavation.

1.4.13.2 Measurement

Unit of measure: each

1.4.14 Bedding Stone

1.4.14.1 Payment

Payment for Bedding Stone will be made at the applicable contract price, which payment shall constitute full compensation for obtaining and placing the bedding stone, complete.

1.4.14.2 Measurement

Unit of measure: ton.

The Contractor shall weigh each load on a certified platform scale and furnish the Contracting Officer with Duplicate Weighmaster's Certificates showing the actual net weights. One ticket shall be furnished to the plant inspector and one ticket to the inspector at the construction site.

1.4.15 Riprap

1.4.15.1 Payment

Payment for Riprap will be made at the applicable contract price, which payment shall constitute full compensation for obtaining and placing the riprap, complete. Payment will not include riprap for side drains for which separate payment is provided.

1.4.15.2 Measurement

Unit of measure: ton.

The Contractor shall weigh each load on a certified platform scale and furnish the Contracting Officer with Duplicate Weighmaster's Certificates showing the actual net weights. One ticket shall be furnished to the plant inspector and one ticket to the inspector at the construction site.

1.4.16 Stone Protection

1.4.16.1 Payment

Payment for Stone Protection will be made at the applicable contract price, which payment shall constitute full compensation for obtaining and placing the stone, complete.

1.4.16.2 Measurement

Unit of Measure: ton.

The Contractor shall weigh each load on a certified platform scale and furnish the Contracting Officer with Duplicate Weighmaster's Certificates showing the actual net weights. One ticket shall be furnished to the plant inspector and one ticket to the inspector at the construction site.

1.4.17 Grouting Stone Protection

1.4.17.1 Payment

Payment for Grouting Stone Protection will be made at the applicable contract price, which payment shall constitute full compensation for grouting stone, complete. Payment will not include wasted grout or grouting stone for side drains for which separate payment is provided.

1.4.17.2 Measurement

Unit of Measure: cubic yard

1.4.18 Aggregate Base Course

1.4.18.1 Payment

Payment for Aggregate Base Course will be made at the applicable contract price which payment shall constitute full compensation for furnishing, placing, and compacting the aggregate base course, complete including subgrade preparation. No payment will be made under this item for aggregate base course used for access roads for which separate payment is provided.

1.4.18.2 Measurement

Unit of Measure: ton.

Aggregate Base Course will be measured by weighing each truckload to the nearest 0.1 ton, and the total final quantity will be rounded to the nearest whole ton. The Aggregate Base Course will be measured for payment by being weighed on approved scales. Scales shall be of sufficient length to permit simultaneous weighing all axle loads and shall be inspected, tested and sealed as directed to assure accuracy with 0.5 percent throughout the range of the scales. The scales shall be certified by an

acceptable scales company representative prior to weighing any Aggregate Base Course.

The quantity of aggregate Base Course placed outside of the lines and grades indicated on the drawings will be estimated and deducted from the payment quantity.

1.4.19 A. C. Pavement

1.4.19.1 Payment

Payment for A. C. Pavement will be made at the applicable contract price, which payment shall constitute full compensation for asphalt concrete surfacing, complete, including tack coat, subgrade preparation and appurtenant work.

1.4.19.2 Measurement

Unit of Measure: ton.

Asphalt Concrete Pavement will be measured by weighing each truckload to the nearest 0.1 ton, and the final quantity of will be rounded to the nearest whole ton. The Asphalt Concrete Pavement will be measured for payment by being weighed on approved scales. Scales shall be of sufficient length to permit simultaneous weighing all axle loads and shall be inspected, tested and sealed as directed to assure accuracy with 0.5 percent throughout the range of the scales. The scales shall be certified by an acceptable scales company representative prior to weighing any Asphalt Concrete Pavement.

1.4.20 Fencing

1.4.20.1 Payment

Payment for Fencing, steel picket fence, double-rail HDPE fence and chain link fence will be made at the applicable contract price, which payment shall constitute full compensation for the fencing, complete in place, including earthwork, concrete foundation, gates, and incidentals.

1.4.20.2 Measurement

Unit of measure: lineal feet

The total quantity of Fencing for which payment will be made will be the nearest linear foot, horizontally along the centerline from end-to-end of the fence in place. Any special fencing on side drains structures, retaining walls, and temporary fencing will not be included in the measurement.

1.4.21 Pipe Guard

1.4.21.1 Payment

Payment for Pipe Guard will be made at the applicable contract price per each, which payment shall constitute full compensation for the guard post, complete, including earthwork, concrete foundation, and incidentals.

1.4.21.2 Measurement

Unit of measure: each.

1.4.22 Toe Drainage

1.4.22.1 Payment

Payment for Toe Drainage will be made at the applicable contract price which payment shall constitute full compensation for furnishing, placing, and compacting the rock, complete including earthwork required for subgrade preparation.

1.4.22.2 Measurement

Unit of Measure: ton.

Toe Drainage will be measured by weighing each truckload to the nearest 0.1 ton, and the total final quantity will be rounded to the nearest whole ton.

The Toe Drainage will be measured for payment by being weighed on approved scales. Scales shall be of sufficient length to permit simultaneous weighing all axle loads and shall be inspected, tested and sealed as directed to assure accuracy with 0.5 percent throughout the range of the scales. The scales shall be certified by an acceptable scales company representative prior to weighing any Aggregate Base Course.

The quantity of Toe Drainage placed outside of the lines and grades indicated on the drawings will be estimated and deducted from the payment quantity.

1.4.23 Webbed Cellular Confinement System

1.4.23.1 Payment

Payment for Webbed Cellular Confinement System will be made at the applicable contract price which payment shall constitute full compensation for furnishing and placing the webbed cells, and furnishing and compacting the earth fill, complete.

1.4.23.2 Measurement

Unit of Measure: Square Yard.

Webbed Cellular Confinement System will be measured by the square yard of material placed as shown on the plans or as directed by the Contracting Officer. Webbed Cellular Confinement System placed outside the specified limits will not be measured or paid for, and the Contractor may be required to remove and dispose of the excess material without additional cost to the Government.

1.4.24 Concrete Breakout at Beaumont Avenue

1.4.24.1 Payment

Payment for Concrete Breakout at Beaumont Avenue will be made at the applicable contract price which payment shall constitute full compensation for constructing the breakouts, including earthwork, shoring, forms, concrete, reinforcing steel, and incidentals.

1.4.24.2 Measurement

Unit of Measure: Cubic Yard.

Concrete Breakout at Beaumont Avnue will be measured by the cubic yard of concrete placed as shown on the plans or as directed by the Contracting Officer. Concrete Breakout placed outside the specified limits will not be measured or paid for, and the Contactor may be required to remove and dispose of the excess material without additional cost to the Government.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

-- End of Section --